

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/004254

A. CLASSIFICATION OF SUBJECT MATTER  
Int.Cl<sup>7</sup> H04B1/707

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> H04J13/00-13/06, H04B1/69-1/713

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2004
Kokai Jitsuyo Shinan Koho	1971-2004	Toroku Jitsuyo Shinan Koho	1994-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 11-243381 A (Kabushiki Kaisha YRP Ido Tsushin Kiban Gijutsu Kenkyusho), 07 September, 1999 (07.09.99), Figs. 2, 4, 5, 11 (Family: none)	1-3, 10-12, 19-21, 28-30, 37, 38
Y		4-6, 13-15, 22-24, 31-33
A		7-9, 16-18, 25-27, 34-36
Y	Fumiyo SATO, Michihide KAMIO, "Iso Shift Tajuka Multi Carrier CDMA System", The Institute of Electronics, Information and Communication Engineers Gijutsu Kenkyu Hokoku, 19 November, 2001 (19.11.01), RCS2001-176	4, 13, 22, 31

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

## \* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&amp;" document member of the same patent family

Date of the actual completion of the international search  
09 June, 2004 (09.06.04)Date of mailing of the international search report  
22 June, 2004 (22.06.04)Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category <sup>a</sup>	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 11-177528 A (Sharp Corp.), 02 July, 1999 (02.07.99), Figs. 5, 9 (Family: none)	5, 6, 14, 15, 23, 24, 32, 33
P, A	JP 2003-110503 A (Communications Research Laboratory), 11 April, 2003 (11.04.03), Claims 1, 5, 10 (Family: none)	1-38
A	JP 2001-60937 A (Communications Research Laboratory), 06 March, 2001 (06.03.01), Claim 1 & JP 3234202 B2 & US 6661831 B1	1-38
A	Ken UMENO, Kenusu Gusutafuson, Ken'ichi KITAYAMA, "Sotai Chaos Shazo o Mochiita Hikari Fugo Bunkatsu Taju Tsushin System", The Institute of Electronics, Information and Communication Engineers Gijutsu Kenkyu Hokoku, 23 July, 1998 (23.07.98), OCS98-28	1-38
A	Kazuhiko NAKAMURA, Teruyuki MIYAJIMA, Kazuo YAMANAKA, "Chaos Kakusan Keiretsu ni yoru Hidoki CDMA Hoshiki no Ayamariritsu", The Institute of Electronics, Information and Communication Engineers Gijutsu Kenkyu Hokoku, 19 March, 1997 (19.03.97), SST96-110	1-38
A	Avi Barda, Shaul Laufer, CHAOTIC SIGNALS FOR MULTIPLE ACCESS COMMUNICATIONS, Electrical and Electronics Engineers in Israel 1995 Eigh- teenth Convention, 08 March, 1995 (08.03.95)	1-38